



Portsmouth Naval Shipyard

CTMA LESSONS LEARNED

(Commercial Technologies for Maintenance Activities)



DEAN BENSLEY

207-438-2293

bensleyda@mail.ports.navy.mil



Portsmouth Naval Shipyard

Overview

- **Background**
- **Establishing a CTMA Project**
- **In Process CTMA Projects**



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Background:

PNS Technology Transfer Office established April 00

- **Conduit for Organizations into the Shipyard**
- **Foster partnerships between region and Navy R & D community**
- **Identify Opportunities to Solve today's Overhaul problems**
- **CRADAs**

Invited CTMA to Portsmouth May 00



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ESTABLISHING A CTMA PROJECT

Educate Legal Office

Determine Chain of Command Policy

Buy in / Support from Shipyard Commander

Communicate / Coordinate with JTEG Member

Must have a local Champion

CTMA PROJECTS

- **Rapid Prototyping**

**Secondary Propulsion Motor Hydro Test
Cover**

Electrical Connector Injection Mold



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CTMA PROJECTS

- On Demand Gas Generation Cutting Equipment



OPPORTUNITIES

On Demand Gas Generation Cutting

Goal: Off the shelf Portable (fit through a submarine hatch & less than 100 lbs.) Safe equipment capable of cutting 1- 3/4" steel.

Reason: Replace Oxygen-Acetylene cutting equipment to:

- * Reduce a significant safety hazard
- * Reduce cost





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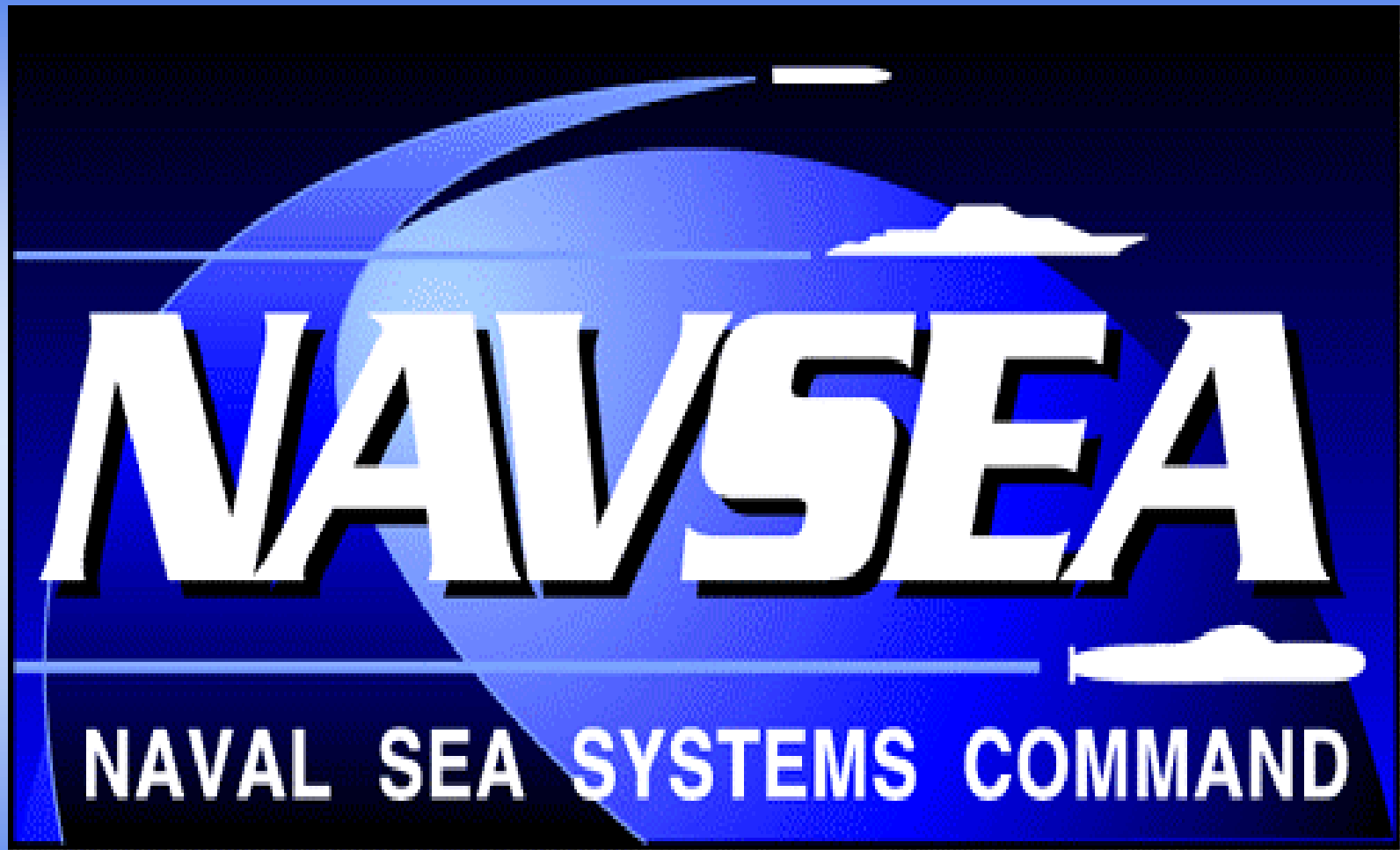
CTMA PROJECTS

- **Condition Based Monitoring and Evaluation**

Acoustic Evaluation Equipment Comparison

Determine Strengths for Different Equipment

KEEPING AMERICA'S NAVY #1 IN THE WORLD



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